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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/000156

### A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C07C 43/04, 41/01, B01J 23/00

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07C, B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA on CD "dimethyl ether" and "preparation"

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5908963 A(Holdor Topsoe A/S) 1 Jun. 1999 see the whole document	1-9
A	KR 10-241083 B1(NKK CORP.) 1 Feb. 2000 see pages 19 - 21, figure 14, and claim 40	1-9
A	JP 10-182533 A(NKK CORP.) 7 Jul. 1998 see pages 4-5, reaction equation 7, and figure1	1-9
A	JP 2001-179103 A((NKK CORP. et al) 3 Jul. 2001 see the whole document	1-9
A	JP 2000-169411 A(JGC CORP.) 20 Jun. 2000 see the whole document	1-9

Further documents are listed in the continuation of Box C.

See patent family annex.

#### \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

08 JUNE 2004 (08.06.2004)

Date of mailing of the international search report

08 JUNE 2004 (08.06.2004)

Name and mailing address of the ISA/KR

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**BEST AVAILABLE COPY****INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/KR2004/000156

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5908963 A	01-06-1999	EP 871602 A1 JP 10-507197 T2 DE 69608915 C0	21-10-1998 14-07-1998 20-07-2000
KR 10-241083 B1	01-02-2000	CN 1169888 A JP 9-286754 A2	14-01-1998 04-11-1997
JP 10-182533 A	07-07-1998	NONE	
JP 2001-179103 A	03-07-2001	NONE	
JP 2000-169411 A	20-06-2000	NONE	

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